

FOOD CONNECT: TO SUPPLY LEFT OVER FOOD TO POOR

By

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1. Project Overview

This project, "**Food Connect: To Supply Leftover Food to Poor**", is focused on creating a platform to streamline the redistribution of surplus food to underserved communities, designed to address the dual challenge of food wastage and hunger. The goal is to deliver a comprehensive solution by leveraging the Salesforce platform with tools like custom objects, Lightning apps, and automation workflows. Through this project, we aim to enhance operational efficiency, transparency, and community engagement while supporting the long-term vision of creating a sustainable food-sharing ecosystem.

2. Objectives

Business Goals:

- To reduce food wastage by connecting surplus food providers with underserved communities in need.
- To create a sustainable platform that promotes transparency and accountability in food redistribution.
- To foster community engagement by encouraging volunteers and donors to participate actively.

Specific Outcomes:

- **Real-Time Tracking:** Implement a dashboard to monitor donations, volunteer tasks, and delivery progress.
- **Automation of Processes:** Streamline donor requests, volunteer coordination, and food pickups using Salesforce Flows and Triggers.

- **User-Friendly Interface:** Develop intuitive forms and tabs for easy onboarding of donors, volunteers, and drop-off points.
- **Comprehensive Reporting:** Generate detailed reports to evaluate the impact, measure key performance indicators (KPIs), and support data-driven decision-making.
- **Scalability:** Create a replicable model that can be extended to other regions or scaled for larger operations.

3. Salesforce Key Features and Concepts Utilized

- **Custom Objects and Fields:**
 - Created tailored objects to manage donor information, volunteer tasks, food pickup requests, and drop-off locations.
- **Lightning App Builder:**
 - Designed an intuitive and visually appealing Lightning app interface for users to easily navigate and manage tasks.
- **Flows and Automation:**
 - Implemented automation for task assignments, notifications, and tracking of food donations and pickups to reduce manual efforts.
- **Triggers:**
 - Developed Apex triggers to ensure data consistency and automate backend processes, such as updating task statuses or alerting users.
- **Reports and Dashboards:**
 - Built dynamic dashboards and reports to provide real-time insights into donation volumes, volunteer activities, and delivery progress.

4. Detailed Steps to Solution Design

Topic no.	Topic Name
1.	Creating Objects: 1.1 Create Venue Object 1.2 Create Drop-Off Point Object 1.3 Create Task Object 1.4 Create Volunteer Object 1.5 Create Execution Details Object
2.	Creating Tabs: 2.1 Create Venue Tab 2.2 Create Drop-Off Point Tab 2.3 Create Task Tab 2.4 Create Volunteer Tab 2.5 Create Execution Details Tab
3.	Create A Lightning App
4.	Fields: 4.1 Creation of Relationship Fields In Objects 4.2 Creation of Fields For The Venue Object 4.3 Creation of Fields For The Drop-Off Point Object 4.4 Creation of Fields For The Task Object 4.5 Creation of Fields For The Volunteer Object 4.6 Creation of Fields For The Execution Details Object
5.	Create Flow to create a record in Venue object

6.	Trigger: 6.1 Create A Trigger 6.2 Trigger Code
7.	Creation Of Users: 7.1 Creation Of User1 7.2 Creation Of User2,user3
8.	Public Groups: 8.1 Creation Of Public Group 1 8.2 Creation Of Public Group 2
9.	Creation Of Report Types
10.	Reports: 10.1 Creation Of Report On venue With Drop-Off Point With Volunteer 10.2 Creation Of Report On Volunteer With Execution Details And Tasks
11.	Dash Boards: 11.1 Adding Venue And Drop-Off Point To Report The Dashboard 11.2 Adding Volunteer Task Report To The Dashboard 11.3 Adding A Picture To The DashBoard
12.	Creation Of Sharing Rules
13.	Creation Of Home Page

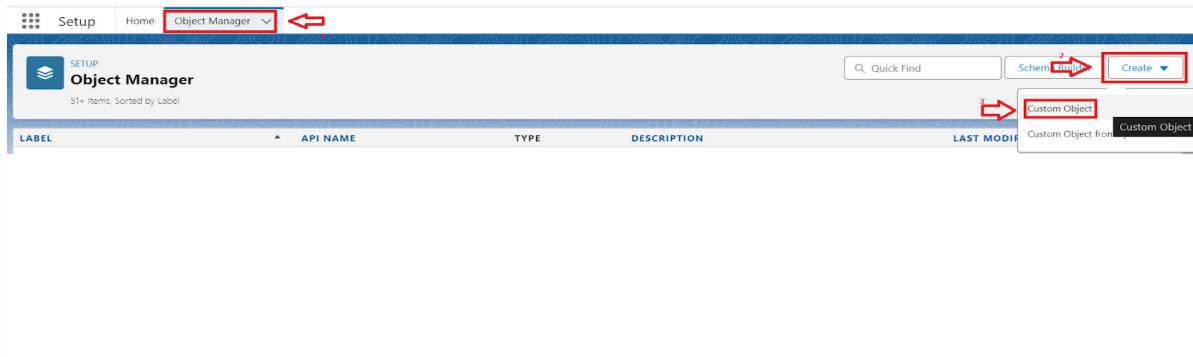
1. Creating Objects

Objects in Salesforce are database tables that allow you to store data specific to your organization. Each object comprises records (rows) and fields (columns) that help organize and structure your data efficiently. We use objects to manage and relate various types of information, enabling seamless data tracking, reporting, and analysis within the Salesforce platform.

Objects allow users to manage various types of information such as customer accounts, contacts, opportunities, and custom data specific to the organization. Salesforce provides standard objects like Account, Contact, and Opportunity, and users can also create **custom objects** to suit unique business needs.

To create an object:

1. From the setup page > Click on Object Manager > Click on Create > Click on Custom Object.



2. On Custom object defining page:
3. Enter the label name, plural label name, click on Allow reports, Allow search.

Custom Object Definition Edit

Custom Object Information

The singular and plural labels are used in tabs, page layouts, and reports.

Label: Example: Account

Plural Label: Example: Accounts

Starts with vowel sound

The Object Name is used when referencing the object via the API.

Object Name: Example: Account

Description:

Context-Sensitive Help Setting

- Open the standard Salesforce.com Help & Training window
- Open a window using a Visualforce page

Content Name: None

Enter Record Name Label and Format

The Record Name appears in page layouts, key lists, related lists, and search results. For example, the Record Name for Account is "Account Name" and for Case it is "Case Number". Note that the Record Name field is always called "Name" when referenced via the API.

Record Name: Account Name

Data Type: Text

Optional Features

- Allow Reports 4
- Allow Activities
- Track Field History

Object Classification

When these settings are enabled, this object is classified as an Enterprise Application object. When these settings are disabled, this object is classified as a Light Application object. [Learn more](#).

- Allow Sharing
- Allow Bulk API Access
- Allow Streaming API Access

Deployment Status

- In Development
- Deployed

Search Status

When this setting is enabled, your users can find records of this object type when they search. [Learn more](#).

- Allow Search 1

Object Creation Options (Available only when custom object is first created)

- Add Notes and Attachments related list to default page layout
- Launch New Custom Tab Wizard after saving this custom object

2

4. Click on Save.

1.1 Create Venue Object:

To create an object:

1. From the setup page >> Click on Object Manager >> Click on Create >>Click on Custom Object.
- 1.1 Enter the label name >> Venue
- 1.2 Plural label name >> Venues

1.3 Enter Record Name Label and Format

Record Name >> Venue Name

Data Type >> Text

2. Click on Allow reports and Track Field History,Allow Activities.

3.Allow search >> Save.

The screenshot shows the Salesforce Object Manager interface. The top navigation bar includes a cloud icon, 'Setup', 'Home', and 'Object Manager'. A search bar says 'Search Setup' and there are various global buttons. The main area shows 'SETUP > OBJECT MANAGER' and 'Venue'. On the left, a sidebar lists options like 'Fields & Relationships', 'Page Layouts', 'Lightning Record Pages', etc. The main 'Details' tab is selected, showing fields for API Name ('Venue__c'), Singular Label ('Venue'), and Plural Label ('Venues'). To the right, under 'Enable Reports', 'Track Activities', and 'Track Field History', checkboxes are checked. Buttons for 'Edit' and 'Delete' are at the bottom right.

1.2 Create Drop-Off Point Object:

To create an object:

1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.

1.1 Enter the label name >> Drop-Off Point

1.2 Plural label name >> Drop-Off Points

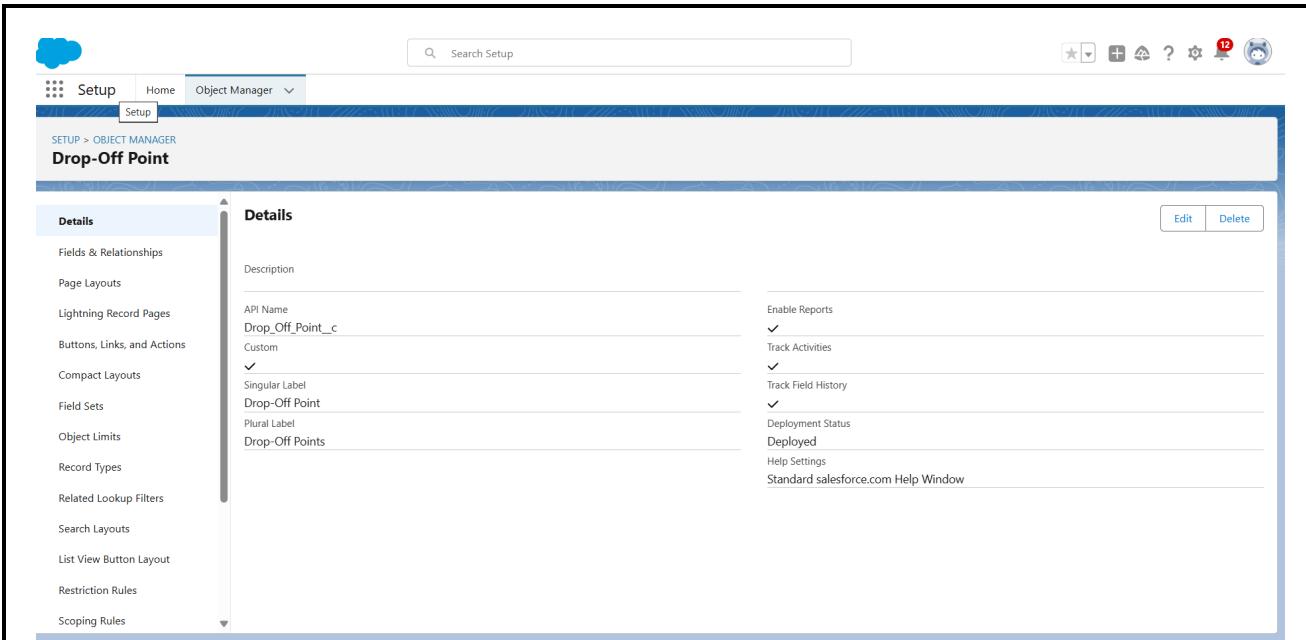
1.3 Enter Record Name Label and Format

Record Name >> Drop-Off point Name

Data Type >> Text

2. Click on Allow reports and Track Field History,Allow Activities

3. Allow search >> Save.



1.3 Create Task Object:

To create an object:

1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
 - 1.1 Enter the label name>> Task
 - 1.2 Plural label name>> Tasks
 - 1.3 Enter Record Name Label and Format
Record Name >> Task Name
Data Type >> Text
2. Click on Allow reports and Track Field History,Allow Activities
3. Allow search >> Save.

The screenshot shows the Salesforce Setup interface. In the top left is the blue cloud icon. To its right are the tabs: Setup, Home, and Object Manager (with a dropdown arrow). A search bar with the placeholder "Search Setup" is next. On the far right are various icons: a star, a plus sign, a question mark, a gear, a red notification badge (12), and a user profile.

The main area is titled "SETUP > OBJECT MANAGER" and "Task".

The left sidebar has a "Details" tab selected, showing a list of configuration items:

- Fields & Relationships
- Page Layouts
- Lightning Record Pages
- Buttons, Links, and Actions
- Compact Layouts
- Field Sets
- Object Limits
- Record Types
- Related Lookup Filters
- Search Layouts
- List View Button Layout
- Restriction Rules
- Scoping Rules

The right panel is titled "Details" and contains the following fields:

Description	
API Name	Task_c
Custom	✓
Singular Label	Task
Plural Label	Tasks
Enable Reports	✓
Track Activities	✓
Track Field History	✓
Deployment Status	Deployed
Help Settings	Standard salesforce.com Help Window

At the bottom right of the main panel are "Edit" and "Delete" buttons.

1.4 Create Volunteer Object:

To create an object:

1. From the setup page >> Click on Object Manager>> Click on Create >> Click on Custom Object.
 - 1.1 Enter the label name>> Volunteer
 - 1.2 Plural label name>> Volunteers
 - 1.3 Enter Record Name Label and Format
Record Name >> Volunteer Name
Data Type >> Text
2. Click on Allow reports and Track Field History, Allow Activities
3. Allow search >> Save.

The screenshot shows the Salesforce Setup interface with the 'Object Manager' selected. Under the 'Volunteer' object, the 'Details' tab is active. On the left, a sidebar lists various configuration options: Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, List View Button Layout, Restriction Rules, and Scoping Rules. The main panel displays the 'Details' section for the 'Volunteer' object. It includes fields for Description, API Name (set to 'Volunteer__c'), Singular Label (set to 'Volunteer'), Plural Label (set to 'Volunteers'), and several checkboxes for 'Enable Reports' (Track Activities, Track Field History, Deployment Status, Help Settings) and 'Standard salesforce.com Help Window'. At the top right of the main panel are 'Edit' and 'Delete' buttons.

1.5 CreateExecution Detail Object:

To create an object:

1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
 - 1.1 Enter the label name >> Execution Detail
 - 1.2 Plural label name >> Execution Details
 - 1.3 Enter Record Name Label and Format
Record Name >> Execution Detail Name
Data Type >> Text
2. Click on Allow reports and Track Field History, Allow Activities
3. Allow search >> Save.

The screenshot shows the Salesforce Setup interface with the following details:

- Setup** icon and **Object Manager** selected in the top navigation.
- Execution Detail** is the current object being edited.
- Details** tab is active.
- Fields & Relationships**, **Page Layouts**, **Lightning Record Pages**, **Buttons, Links, and Actions**, **Compact Layouts**, **Field Sets**, **Object Limits**, **Record Types**, **Related Lookup Filters**, **Search Layouts**, **List View Button Layout**, **Restriction Rules**, and **Scoping Rules** are listed in the sidebar.
- Description**: Execution Detail
- API Name**: Execution_Detail_c
- Custom**: ✓
- Singular Label**: Execution Detail
- Plural Label**: Execution Details
- Enable Reports**: ✓
- Track Activities**: ✓
- Track Field History**: ✓
- Deployment Status**: Deployed
- Help Settings**: Standard salesforce.com Help Window

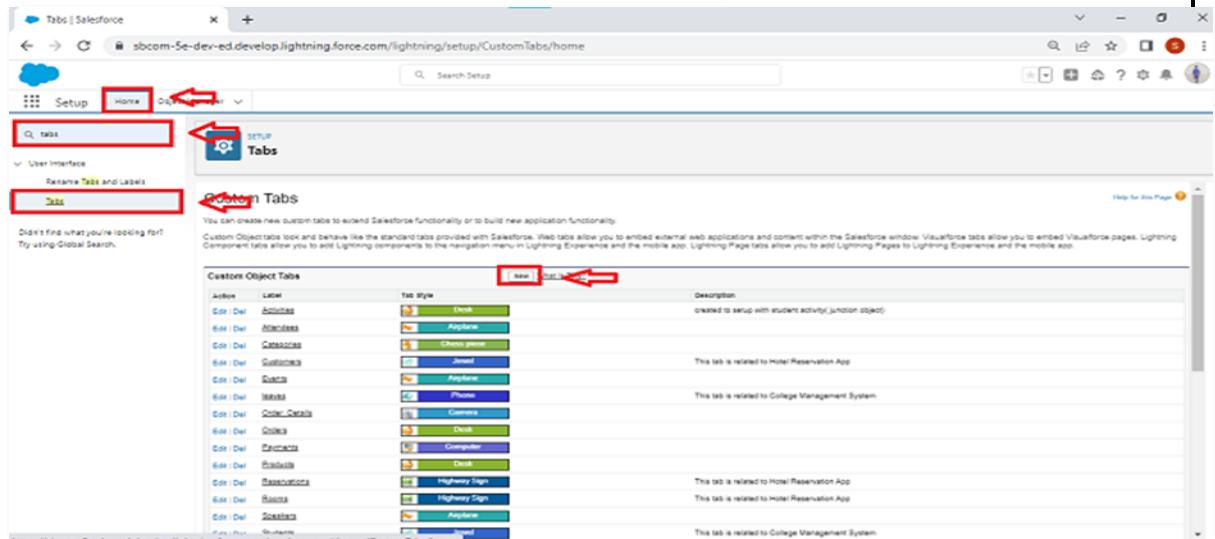
2.Creating Tabs

A **tab** is a user interface component that helps users organize, access, and manage records of different **objects** within the platform. Salesforce objects represent different types of data, such as Accounts, Contacts, Opportunities, or Custom Objects, and each object has its own tab. Here's a more detailed explanation of what a tab is and how it functions

2.1 Creating Venue Tab:

To create a Tab:(Venue)

1. Go to setup page >> type Tabs in Quick Find bar >> click on tabs >> New (under custom object tab)



1. Select Object(Venue) >> Select the tab style >> Next (Add to profiles page) keep it as default >> Next (Add to Custom App) uncheck the include tab .
2. Make sure that the Append tab to users' existing personal customizations is checked.
3. Click save

2.2 Creating Remaining tabs:

1. Now create the Tabs for the remaining Objects, they are “Drop-Off Point, Task, Volunteer, Execution Details”.
2. Follow same steps of 2.1

Custom Tabs

You can create new custom tabs to extend Salesforce functionality or to build new application functionality.

Custom Object tabs look and behave like the standard tabs provided with Salesforce. Web tabs allow you to embed external web applications and content within the Salesforce window. Visualforce tabs allow you to embed Visualforce pages. Lightning Component tabs allow you to add Lightning components to the navigation menu in Lightning Experience and the mobile app. Lightning Page tabs allow you to add Lightning Pages to Lightning Experience and the mobile app.

Didn't find what you're looking for? Try using Global Search.

Custom Object Tabs

Action	Label	Tab Style	Description
Edit Del	Drop-Off Points	Map	
Edit Del	Execution Details	Computer	
Edit Del	Tasks	Pencil	
Edit Del	Venues	Camera	
Edit Del	Volunteers	People	

Web Tabs

No Web Tabs have been defined.

Visualforce Tabs

No Visualforce Tabs have been defined.

3. Create A Lightning app

To create a lightning app page:

1. Go to setup page >> search “app manager” in quick find >> select “app manager” >> click on New lightning App.

Lightning Experience App Manager

Dynamically create new Lightning apps by cloning existing apps. To use the beta feature, indicate that you've read all legal requirements and agree to participate by toggling Enable App Cloning. See additional details and terms in the Winter '23 release notes.

Enable App Cloning Enabled

App Name	Developer Name	Description	Last Modified	App Type
All Tabs	AltTabSet	Build CRM Analytics dashboards and apps.	04/12/2022, 10:13 am	Classic
Analytics Studio	Insights	Build CRM Analytics dashboards and apps.	04/12/2022, 10:13 am	Classic
App Launcher	AppLauncher	App Launcher interface.	04/12/2022, 10:13 am	Classic
Bolt Solutions	LightningBolt	Discover and manage business solutions designed for your industry.	04/12/2022, 10:16 am	Lightning
Chatter Desktop	Chatter/Desktop	Chatter Desktop is an Adobe AIR-based desktop application that lets Chatter users stay connected to their social network from their desktop.	28/12/2022, 4:04 pm	Connected (Managed)
Chatter Mobile for BlackBerry	Chatter/For BlackBerry	The Salesforce.com Chatter Mobile app lets you access Chatter data on the go. Use it to view feed, comment, and share.	28/12/2022, 4:05 pm	Connected (Managed)
College Management System	Academis	Academis app.	08/12/2022, 4:18 pm	Lightning
Community	Community	Salesforce CRM Communities	04/12/2022, 10:13 am	Classic
Content	Content	Salesforce CRM Content	04/12/2022, 10:13 am	Classic
Data Manager	DataManager	Use Data Manager to view limits, monitor usage, and manage recipes.	04/12/2022, 10:13 am	Lightning

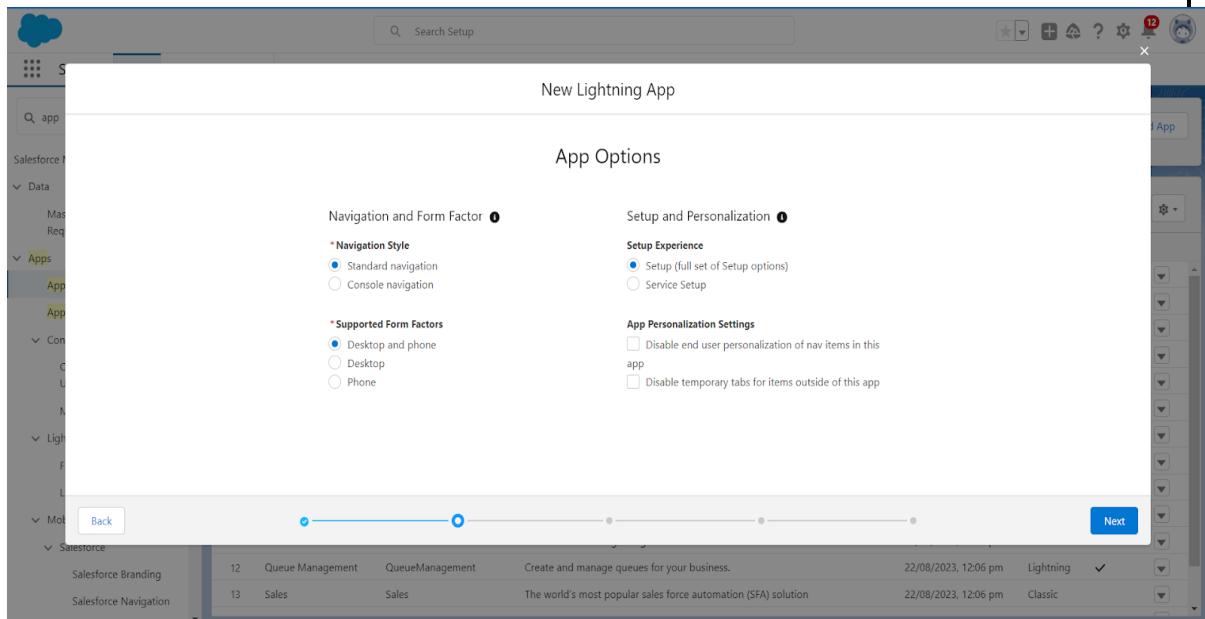
2. Fill the app name in app details and branding as follow

App Name : FoodConnect

Developer Name : This will auto populated

Image : optional (if you want to give any image you can otherwise not mandatory) Primary color hex value : keep this default.

3. Then click Next >> (App option page) Set Navigation Style as Standard Navigation >> Next.



4. (Utility Items) keep it as default >> Next.

5. To Add Navigation Items:

The screenshot shows a user interface for managing items. On the left, under 'Available Items', there is a search bar with placeholder text 'Type to filter list...' and a list of items including Accounts, All Sites, Alternative Payment Methods, Analytics, App Launcher, Appointment Categories, Appointment Invitations, Approval Requests, Asset Action Sources, and Asset Actions. On the right, under 'Selected Items', there is a list of items: Home, Venues, Tasks, Drop-Off points, Execution Details, Volunteers, Reports, and Dashboards. Between the two lists are two small arrows: a right-pointing arrow above a left-pointing arrow.

Search for the item in the (Home, Venue, Drop-Off Point, Task, Volunteer, Execution Details, Reports) from the search bar and move it using the arrow button >> Next >> Next.

6. To Add User Profiles:

The screenshot shows the 'User Profiles' configuration screen for a new Lightning App. The title is 'New Lightning App' and the section is 'User Profiles'. A note says 'Choose the user profiles that can access this app.' Under 'Available Profiles', there is a search bar with 'System administrator' typed in, which is highlighted with a red box and has a red arrow pointing to the right. Below the search bar is a right-pointing arrow, also highlighted with a red box and has a red arrow pointing to the right. At the bottom right of the screen is a blue 'Save & Finish' button, which is also highlighted with a red box and has a red arrow pointing to it.

Search profiles (System administrator) in the search bar >> click on the arrow button >> save & finish.

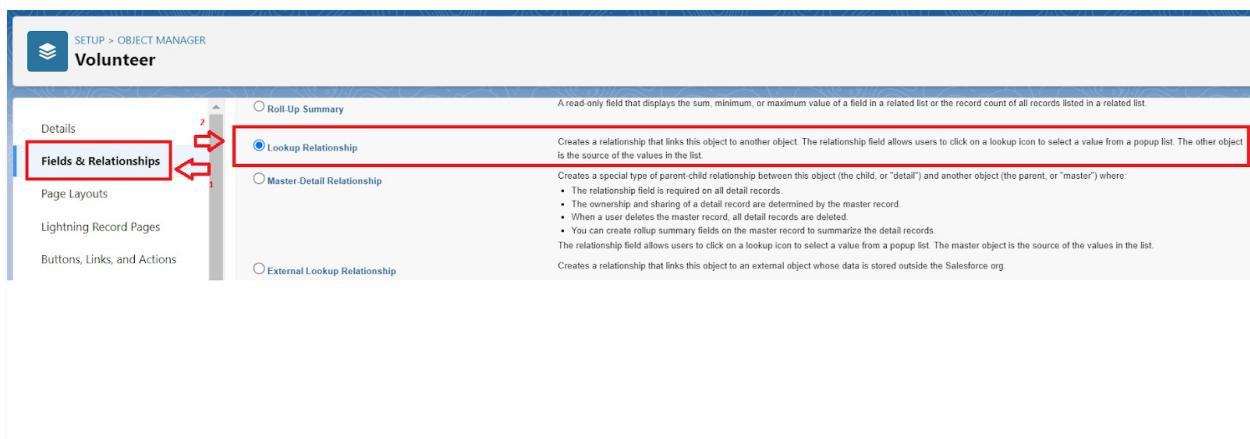
4. Fields

Fields are fundamental building blocks of objects. They store individual pieces of data in a record and define the data type, behavior, and purpose of that data. Fields are associated with both **standard** and **custom objects**. Fields in Salesforce are data containers within objects that store specific pieces of information, such as text, numbers, or dates.

4.1 Creation of Relationship Fields In Objects:

Creation of Lookup Relationship Field on Volunteer Object :

1. Go to setup >> click on Object Manager >> type object name(Volunteer) in the search bar >> click on the object.



2. Now click on “Fields & Relationships” >> New
3. Select Master Detail relationship
4. Select the related object “Drop-Off point” and click next.



5. Field Name : Drop_Off_point
6. Field label : Auto generated
7. Next >> Next >> Save.

Creation of Master Detail Relationship Field on Execution Details Object :

8. Go to setup >> click on Object Manager >> type object name(Execution Details) in the search bar >> click on the object.
9. Now click on “Fields & Relationships” >> New
10. Select Master Detail relationship
11. Select the related object “Volunteer” and click next.
12. Field Name : Volunteer
13. Field label : Auto generated
14. Next >> Next >> Save.

Creation of Master Detail Relationship Field on Execution Details Object :

15. Go to setup >> click on Object Manager >> type object name(Execution Details) in the search bar >> click on the object.
16. Now click on “Fields & Relationships” >> New
17. Select Master Detail relationship
18. Select the related object “Task” and click next.

19. Field Name : Task
20. Field label : Auto generated
21. Next >> Next >> Save.

Creation of Lookup Relationship Field on Drop-Off Point Object :

22. Go to setup >> click on Object Manager >> type object name(Drop-Off Point) in the search bar >> click on the object.
23. Now click on “Fields & Relationships” >> New
24. Select Lookup relationship
25. Select the related object “Venue” and click next.
26. Field Name : Venue
27. Field label : Venue_c
28. Next >> Next >> Save.

Creation of Lookup Relationship Field on Task Object :

29. Go to setup >> click on Object Manager >> type object name(Task) in the search bar >> click on the object.
30. Now click on “Fields & Relationships” >> New
31. Select Lookup relationship
32. Select the related object “Venue” and click next.
33. Field Name : Sponsored By
34. Field label : Auto generated
35. Next >> Next >> Save.

Creation of Lookup Relationship Field on Task Object :

36. Go to setup>> click on Object Manager >> type object name(Task) in the search bar >> click on the object.
37. Now click on “Fields & Relationships” >> New
38. Select Lookup relationship
39. Select the related object “Drop-Off point” and click next.
40. Field Name : Drop-Off point
41. Field label : Auto generated
42. Next >> Next >> Save.

4.2 Creation Of Fields For The Venue object:

1. Go to setup>> click on Object Manager >> type object name(Venue) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Email” and Click on Next
4. Fill the Above as following:
 - Field Label : Contact Email
 - Field Name : Contact Email
 - Click on required check box
 - Click on Next >> Next >> Save and new.

To create another fields in an object:

5. Go to setup >> click on Object Manager >> type object name(Venue) in search bar >> click on the object.
6. Now click on “Fields & Relationships” >> New
7. Select Data type as a “Phone” and Click on Next
8. Fill the Above as following:
 - Field Label : Contact Phone

- Field Name : Contact Phone
- Click on required check box
- Click on Next >> Next >> Save and new.

To create another fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Venue) in search bar >>click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Geolocation” and Click on Next
4. Fill the Above as following:
 - Field Label : Location
 - Decimal Places : 4
 - Field Name : Location
 - Description : Enter the Geolocation of your Venue
 - Click on Next >> Next >> Save and new.

To create another fields in an object:

9. Go to setup >> click on Object Manager >> type object name(Venue) in search bar >> click on the object.
10. Now click on “Fields & Relationships” >> New
11. Select Data type as a “Long Text Area” and Click on Next
12. Fill the Above as following:
 - Field Label : Venue Location
 - Field Name : Venue_Location
 - Click on Next >> Next >> Save and new.

Fields & Relationships				
8 Items, Sorted by Field Label				
FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Contact Email	Contact_Email__c	Email		
Contact Phone	Contact_Phone__c	Phone		
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Location	Location__c	Geolocation		
Owner	OwnerId	Lookup(User,Group)		
Venue Location	Venue_Location__c	Long Text Area(32768)		
Venue Name	Name	Text(80)		

4.2 Creation Of Fields For The Drop-Off Point object:

Go to setup >> click on Object Manager >> type object name(Drop-Off point) in search bar >> click on the object.

2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Geolocation” and Click on Next
4. Fill the Above as following:

- Field Label : Location 2
- Field Name : gets auto generated
- Description : Enter the Geolocation of the Drop off Point
- Geolocation Options : select Decimal
- Decimal Places : 4
- Click on Next >> Next >> Save and new.

To create another fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Drop-Off point) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New

3. Select Data type as a “Formula” and Click on Next
4. Fill the Above as following:
 - Field Label : distance calculation
 - Field Name : distance_calculation
 - Formula Return Type : Number
 - Formula Options : DISTANCE(Location_2__c , Venue__r.Location__c , 'km')
 - Click on Next >> Next >> Save and new.

The screenshot shows the 'Formula Options' dialog box. At the top, 'Formula Return Type' is set to 'Number' and 'Decimal Places' is set to 4. Below that, there's a note about checking syntax and examples. The main area contains a 'Simple Formula' input field with the formula 'distance_calculation(Number) = DISTANCE(Location_2__c , Venue__r.Location__c , 'km')'. This formula line is highlighted with a red box.

To create another fields in an object:

5. Go to setup >> click on Object Manager >> type object name(Drop-Off point) in search bar >> click on the object.
6. Now click on “Fields & Relationships” >> New
7. Select Data type as a “Picklist” and Click on Next
8. Fill the Above as following:
 - Field Label : State
 - Field Name : State
 - Enter values, with each value separated by a new line :
 - Andhra Pradesh
 - Arunachal Pradesh
 - Assam
 - Bihar

Chhattisgarh
Goa
Gujarat
Haryana
Himachal Pradesh
Jharkhand
Karnataka
Kerala
Maharashtra
Madhya Pradesh
Manipur
Meghalaya
Mizoram
Nagaland
Odisha
Punjab
Rajasthan
Sikkim
Tamil Nadu
Tripura
Telangana
Uttar Pradesh
Uttarakhand
West Bengal
Andaman & Nicobar (UT)
Chandigarh (UT)
Dadra & Nagar Haveli and Daman & Diu (UT)
Delhi [National Capital Territory (NCT)]
Jammu & Kashmir (UT)

Ladakh (UT)

Lakshadweep (UT)

Puducherry (UT)

- Click on required check box
- Click on Next >> Next >> Save and new.

To create another fields in an object:

9. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
10. Now click on “Fields & Relationships” >> New
11. Select Data type as a “Number” and Click on Next
12. Fill the Above as following:
 - Field Label : Distance
 - Field Name : Distance
 - Length : 14
 - Decimal Places : 4
 - Click on required check box
 - Click on Next >> Next >> Save and new.

The screenshot shows the Salesforce Object Manager interface for the 'Drop-Off Point' object. The left sidebar lists various setup options like Page Layouts, Lightning Record Pages, and Field Sets. The main area displays the 'Fields & Relationships' section with a table of fields. The table has columns for FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The indexed column contains several checkmarks. The table data includes:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Distance	Distance__c	Number(14, 4)		
distance calculation	distance_calculation__c	Formula (Number)		
Drop-Off Point Name	Name	Text(80)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Location 2	Location_2__c	Geolocation		
Owner	OwnerId	Lookup(User,Group)		✓
State	State__c	Picklist		
Venue__c	Venue__c	Lookup(Venue)		✓

4.3 Creation Of Fields For Task object:

Go to setup>> click on Object Manager >> type object name(Task) in search bar >> click on the object.

2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Auto Number” and Click on Next
4. Fill the Above as following:
 - Field Label : Task ID
 - Display Format : TASK-{0}
 - Starting Number : 1
 - Field Name : gets auto generated
 - Click on required check box
 - Click on Next >> Next >> Save and new.

To create another fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Date” and Click on Next
4. Fill the Above as following:
 - Field Label : Date
 - Field Name : Date
 - Click on required check box
 - Click on Next >> Next >> Save and new.

To create another fields in an object:

5. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
6. Now click on “Fields & Relationships” >> New

7. Select Data type as a “Picklist (Multi-Select)” and Click on Next
8. Fill the Above as following:
 - Field Label : Food Category
 - Field Name : Food Category
 - Enter values, with each value separated by a new line :
Veg
Non-Veg
Salad
Snack
 - Click on required check box
 - Click on Next >> Next >> Save and new.

To create another fields in an object:

9. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
10. Now click on “Fields & Relationships” >> New
11. Select Data type as a “Number” and Click on Next
12. Fill the Above as following:
 - Field Label : Number of People Served
 - Field Name : Number_of_People_Served
 - Click on required check box
 - Click on Next >> Next >> Save and new.

To create another fields in an object:

13. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
14. Now click on “Fields & Relationships” >> New
15. Select Data type as a “Text” and Click on Next
16. Fill the Above as following:

- Field Label : Name of the Person
- Field Name : Name_of_the_Person
- Click on Next >> Next >> Save and new.

To create another fields in an object:

17. Go to setup>> click on Object Manager >> type object name(Task) in search bar >> click on the object.
18. Now click on “Fields & Relationships” >> New
19. Select Data type as a “Phone” and Click on Next
20. Fill the Above as following:
 - Field Label : Phone
 - Field Name : Phone
 - Click on Next >> Next>> Save and new.

To create another fields in an object:

21. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
22. Now click on “Fields & Relationships” >> New
23. Select Data type as a “Pick List” and Click on Next
24. Fill the Above as following:
 - Field Label : Rating
 - Field Name : Rating
 - Enter values, with each value separated by a new line :
 - 1
 - 2
 - 3
 - 4
 - 5
 - Click on Next >> Next >> Save and new.

To create another fields in an object:

25. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
26. Now click on “Fields & Relationships” >> New
27. Select Data type as a “Long Text Area” and Click on Next
28. Fill the Above as following:
 - Field Label : Feedback
 - Field Name : Feedback
 - Click on Next >> Next >> Save and new.

The screenshot shows the Salesforce Object Manager interface for the 'Task' object. On the left, there's a sidebar with various setup categories like Page Layouts, Lightning Record Pages, and Field Sets. The main area is titled 'Fields & Relationships' and shows a table of existing fields. The table has columns for FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The 'Feedback' field is highlighted, showing it was created with a Long Text Area data type. Other fields listed include Created By, Date, Distance, Drop-Off Point, Food Category, Last Modified By, Name of the Person, and Number of People Served.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Date	Date_c	Date		
Distance	Distance_c	Number(14, 4)		
Drop-Off Point	Drop_Off_Point_c	Lookup(Drop-Off Point)		
Feedback	Feedback_c	Long Text Area(32768)		
Food Category	Food_Category_c	Picklist (Multi-Select)		
Last Modified By	LastModifiedById	Lookup(User)		
Name of the Person	Name_of_the_Person_c	Text(50)		
Number of People Served	Number_of_People_Served_c	Number(18, 0)		

4.4 Creation Of Fields For Volunteer object:

1. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Auto Number” and Click on Next
4. Fill the Above as following:

- Field Label : Volunteer ID
- Field Name : gets auto generated
- Click on required check box
- Click on Next >> Next >> Save and new.
- Click on Next >> Next >> Save and new.

To create another fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Picklist” and Click on Next
4. Fill the Above as following:
 - Field Label : Gender
 - Field Name : Gender
 - Enter values, with each value separated by a new line :

Female

Male
 - Click on Next >> Next >> Save and new.

To create another fields in an object:

5. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
6. Now click on “Fields & Relationships” >> New
7. Select Data type as a “Date” and Click on Next
8. Fill the Above as following:
 - Field Label : Available On
 - Field Name : Available On
 - Click on required check box

- Click on Next >> Next >> Save and new.

To create another fields in an object:

9. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
10. Now click on “Fields & Relationships” >> New
11. Select Data type as a “Number” and Click on Next
12. Fill the Above as following:
 - Field Label : Age
 - Field Name : Age
 - Click on required check box
 - Click on Next >> Next>> Save and new.

To create another fields in an object:

13. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
14. Now click on “Fields & Relationships” >> New
15. Select Data type as a “Email” and Click on Next
16. Fill the Above as following:
 - Field Label : Email
 - Field Name : Email
 - Click on required check box
 - Click on Next>> Next >> Save and new.

To create another fields in an object:

17. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
18. Now click on “Fields & Relationships” >> New
19. Select Data type as a “Number” and Click on Next

20. Fill the Above as following:

- Field Label : Contact Number
- Field Name : Contact_Number
- Click on required check box
- Click on Next >> Next >> Save and new.

To create another fields in an object:

21. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.

22. Now click on “Fields & Relationships” >> New

23. Select Data type as a “Text Area (Long)” and Click on Next

24. Fill the Above as following:

- Field Label : Address
- Field Name : Address
- Click on Next >> Next >> Save and new.

To create another fields in an object:

25. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.

26. Now click on “Fields & Relationships” >> New

27. Select Data type as a “Date” and Click on Next

28. Fill the Above as following:

- Field Label : Date of Birth
- Field Name : Date_of_Birth
- Click on Next >> Next >> Save and new.

The screenshot shows the Salesforce Setup interface with the following details:

- Setup** button in the top left.
- Search bar at the top center with the placeholder "Search Setup".
- Top right icons for Home, Object Manager, and various system functions.
- Breadcrumbs: SETUP > OBJECT MANAGER > Volunteer.
- Left sidebar menu under "Fields & Relationships" containing items like Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, List View Button Layout, Restriction Rules, and Scoping Rules.
- Main content area titled "Fields & Relationships" with a sub-header "13 items, Sorted by Field Label".
- A table listing 13 fields:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Long Text Area(32768)		▼
Age	Age__c	Number(18, 0)		▼
Available On	Available_On__c	Date		▼
Contact Number	Contact_Number__c	Number(18, 0)		▼
Created By	CreatedById	Lookup(User)		▼
Date of Birth	Date_of_Birth__c	Date		▼
Drop-Off Point	Drop_Off_Point__c	Master-Detail(Drop-Off Point)	✓	▼
Email	Email__c	Email		▼
Execution ID	Execution_ID__c	Auto Number		▼

4.4 Creation Of Fields For Execution Details object:

1. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Auto Number” and Click on Next
4. Fill the Above as following:
 - Field Label : Execution ID
 - Field Name : gets auto generated
 - Click on required check box
 - Click on Next >> Next >> Save and new.

The screenshot shows the Salesforce Setup interface for the 'Execution Detail' object. On the left, there's a sidebar with various setup categories like Page Layouts, Lightning Record Pages, and Field Sets. The main area is titled 'Fields & Relationships' and lists five items. A table displays field details:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Execution Detail Name	Name	Text(80)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Task	Task__c	Master-Detail(Task)		✓
Volunteer	Volunteer__c	Master-Detail(Volunteer)		✓

5. Create Flow to create a record in Venue object

1. Go to setup >> type Flow in quick find box >> Click on the Flow and Select the New Flow.
2. Select the Screen flow. Click on create.

The screenshot shows the 'New Flow' screen in the Salesforce Flow builder. It has a header 'New Flow' and a navigation bar with 'Core' selected and 'All + Templates' available. Below is a grid of flow types:

Screen Flow Guides users through a business process that's launched from Lightning pages, Experience Cloud sites, quick actions, and ...	Record-Triggered Flow Launches when a record is created, updated, or deleted. This autolaunched flow runs in the background.
Schedule-Triggered Flow Launches at a specified time and frequency for each record in a batch. This autolaunched flow runs in the background.	Platform Event—Triggered Flow Launches when a platform event message is received. This autolaunched flow runs in the background.
Autolaunched Flow (No Trigger) Launches when invoked by Apex, processes, REST API, and more. This autolaunched flow runs in the background.	Record-Triggered Orchestration Launches when a record is created or updated. An orchestration lets you create a multi-step, multi-user process.

A blue 'Create' button is located at the bottom right of the grid.

3. Click on the '+' icon in between start and end, and click on screen element.
4. Under the Screen Properties:
Label : Venue Details

API Name : Venue_Details

5. Now lets add components in this flow. Click on Text Component and name it as:

Label : Venue Name

API Name : Venue_Name

6. Click on Email Component and name it as:

Label : Email

API Name : Contact_Email

7. Click on Phone Component and name it as:

Label : Phone

API Name : Contact_Phone

8. Click on Text Component and name it as:

Label : Venue Location

API Name : Venue_Location

9. Click on Number Component and name it as:

Label : Latitude

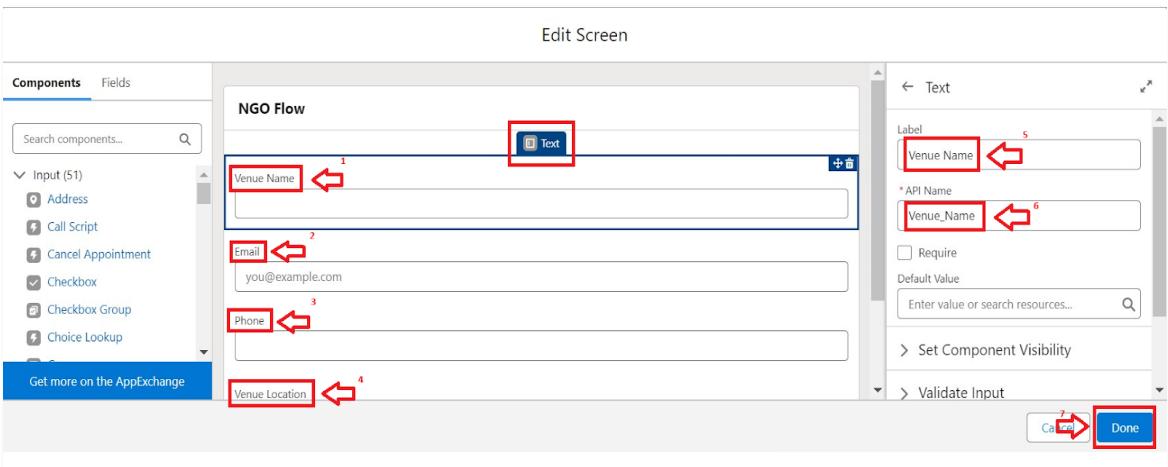
API Name : Latitude

10. Click on Number Component and name it as:

Label : longitude

API Name : longitude

11. Next click on Done. This would like below



12. Click on the '+' icon in between Venue details and end, and click on create record element.

13. Now label it as

Label : Create Venue Record

API Name : Create_Venue_Record

How Many Records to Create : One

How to Set the Record Fields : Use separate resources, and literal values

Object : Venue

Set Field Values for the Venue : Click on 'Add Field' 5 times

Field : Value = Contact_Email__c : {!Contact_Email.value}

Field : Value = Contact_Phone__c : {!Contact_Phone.value}

Field : Value = Name : {!Venue_Name}

Field : Value = Venue_Location__c : {!location}

Field : Value = Location_Latitude__s : {!latitude}

Field : Value = Location_Longitude__s : {!longitude}

14. This would look like:

Create a Record of This Object

*Object

Venue

Set Field Values for the Venue

Field

Contact_Email__c

Value

Aa Contact_Email > Value X



Field

Contact_Phone__c

Value

Aa Contact_Phone > Value X



Field

Name

Value

Aa Venue_Name X



Field

Venue_Location__c

Value

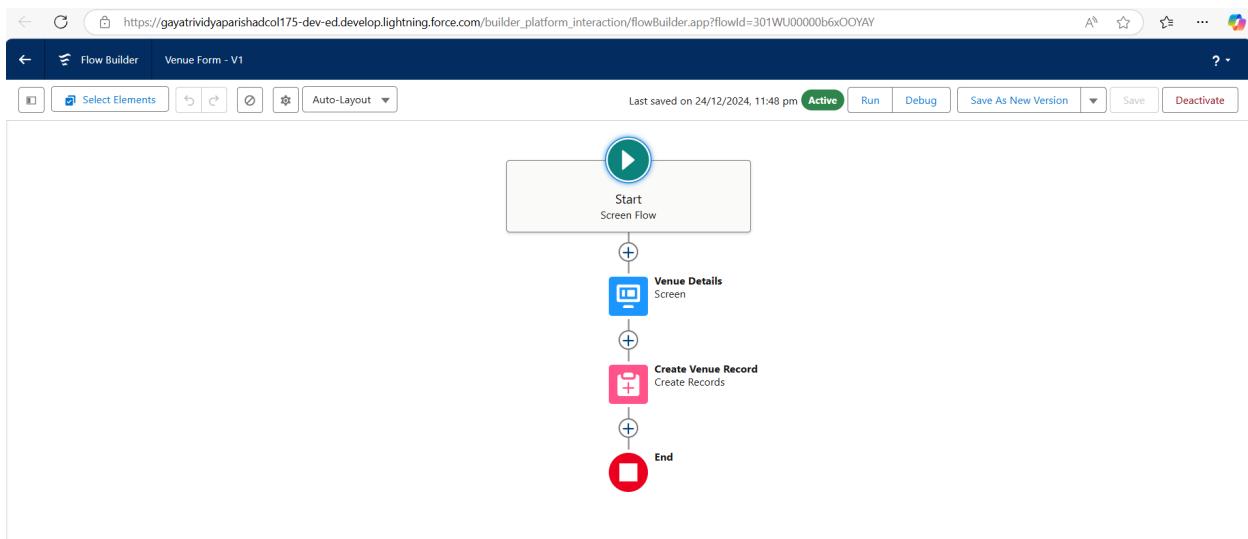
Aa location X



15. Click on Save as:

Flow Label : Venue Form

Flow API Name : Venue_Form

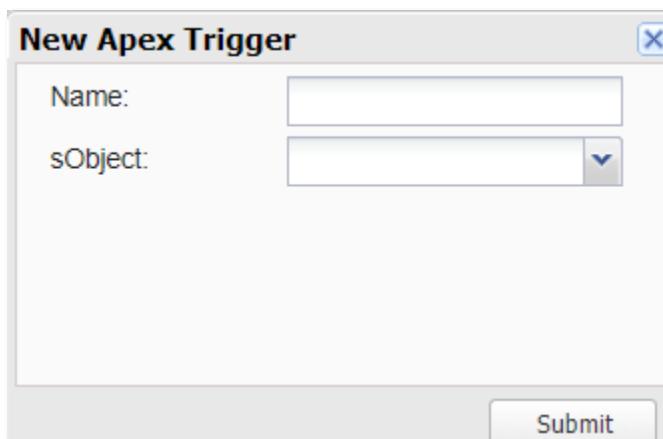
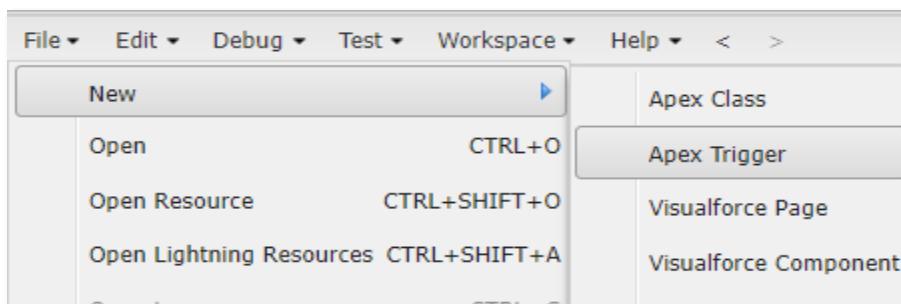


6.Triggers

Triggers are pieces of Apex code that execute automatically in response to specific events on a record.

6.1 Create A Trigger:

1. Log into the trailhead account, navigate to the gear icon in the top right corner.
2. Click on developer console and you will be navigated to a new console window.
3. Click on the File menu in the toolbar, and click on new >> Trigger.
4. Enter the trigger name and the object to be triggered.



5. Enter Name : DropOffTrigger

sObject: Drop-Off Point

6. Click on Submit.

6.2 Trigger Code

```
trigger DropOffTrigger on Drop_Off_point__c (before insert) {  
    for(Drop_Off_point__c Drop : Trigger.new){  
        Drop.Distance__c = Drop.distance_calculation__c;  
    }  
}
```

7.Creation Of Users

7.1 Creation of user1:

1. Go to setup page >> type users in Quick Find bar >> click on users>> New user.
2. In General Information give details as: (Note : create users as per your wish NGO's)

First Name : Nuthakki satya

Last Name : Murthy

Alias : Nmurt

Email : Give Your Email

Username :satyamurthy@gvp.com

Nickname : satyamurthy

User License : Salesforce Platform

Profile : NGOs Profile

Active : Check

User Edit
Nuthakki Satya Murthy

User Edit Save | Save & New | Cancel

General Information

First Name	Nuthakki Satya	Role	<None Specified>
Last Name	Murthy	User License	Salesforce
Alias	NMurty	Profile	System Administrator
Email	nuthakkisatyamurthy@gma...	Active	<input checked="" type="checkbox"/>
Username	satyamurthy@gvp.com	Marketing User	<input checked="" type="checkbox"/>
Nickname	satyamurthy	Offline User	<input checked="" type="checkbox"/>
Title		Knowledge User	<input type="checkbox"/>
Company	Gayatri Vidy Parishad Coll	Flow User	<input type="checkbox"/>
Department		Service Cloud User	<input checked="" type="checkbox"/>
Division		Site.com Contributor User	<input type="checkbox"/>
		Site.com Publisher User	<input type="checkbox"/>
		WDC User	<input type="checkbox"/>
		Data.com User Type	<None>
		Data.com Monthly Addition Limit	300
		Accessibility Mode (Classic Only)	<input type="checkbox"/>
		Hints: Contrast Palette on Charts	<input type="checkbox"/>

3. Click on Save

7.1 Creation of user2,user3:

1. Create another Two Users by following steps in Activity - 1 with similar User License and Profile.
2. Give Different First Name, Last Name based on Different NGO's.

All Users

On this page you can create, view, and manage users.

To get more licenses, use the Your Account app. [Let's Go](#)

View: All Users | Edit | Create New View

Action	Full Name	Alias	Username	Role	Active	Profile
<input type="checkbox"/> Edit	Chatter Expert	Chatter	chaty@00dwu00000e6pn32an.wig57a2fx4f@chatter.salesforce.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Chatter Free User
<input type="checkbox"/> Edit	Murthy_Nuthakki Satya	NMurty	satyamurthy@gvp.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	System Administrator
<input type="checkbox"/> Edit	nuthakki_venu	vnuth	venu@gvp.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NGOs Profile
<input type="checkbox"/> Edit	Satya_Foundation_Satya Foundation	ssaty	murthymurthy@00dwu00000e6pn32an.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NGOs Profile
<input type="checkbox"/> Edit	User_Integration	integ	integration@00dwu00000e6pn32an.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Analytics Cloud Integration User
<input type="checkbox"/> Edit	User_Security	sec	insightssecurity@00dwu00000e6pn32an.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Analytics Cloud Security User
<input type="checkbox"/> Edit	uyyuru_Saittej	suyyu	saittej@gvp.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NGOs Profile

8. Public groups

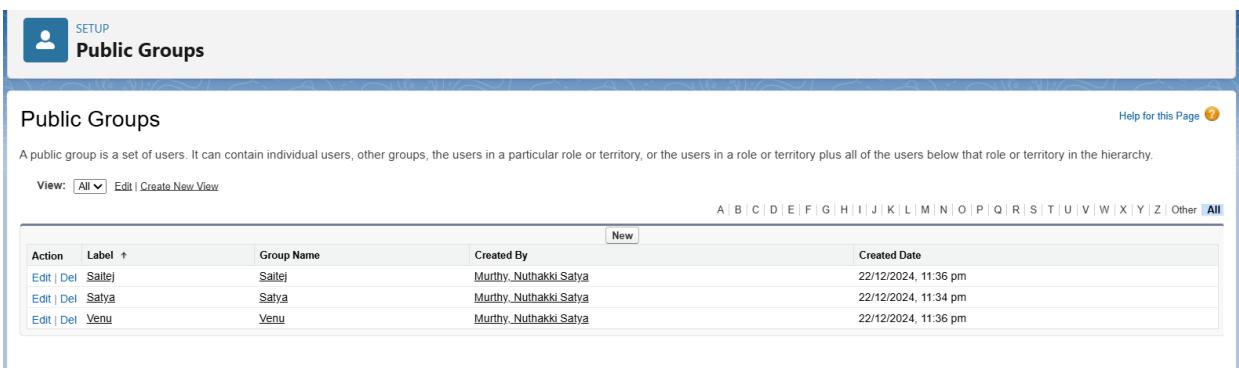
8.1 Creation Of Public Group1:

1. Go to setup page >> type Public Groups in Quick Find bar >> click on Public Groups >> click on New.
2. Under Group Information:
Label : Satya
Group Name : Satya
Grant Access Using Hierarchies : Check
3. In Search, Select Users.
4. In Selected Members Add Nuthakki Satya Murthy and Satya Foundation Satya_Foundation

8.1 Creation Of Public Group2,3:

1. By Following Steps in Activity 1, Create other two Public Groups for other two users.

After Saving this would look like this.



The screenshot shows the 'Public Groups' page in the Salesforce setup. At the top, there's a blue header bar with a user icon, 'SETUP', and 'Public Groups'. Below it, the main title is 'Public Groups'. A sub-header says 'A public group is a set of users. It can contain individual users, other groups, the users in a particular role or territory, or the users in a role or territory plus all of the users below that role or territory in the hierarchy.' There are buttons for 'View: All' and 'Create New View'. On the right, there's a 'Help for this Page' link. The main content area has a table with columns: Action, Label, Group Name, Created By, and Created Date. The table contains three rows of data:

Action	Label	Group Name	Created By	Created Date
Edit Del	Sallej	Sallej	Murthy_Nuthakki Satya	22/12/2024, 11:36 pm
Edit Del	Satya	Satya	Murthy_Nuthakki Satya	22/12/2024, 11:34 pm
Edit Del	Venu	venu	Murthy_Nuthakki Satya	22/12/2024, 11:36 pm

9. Creation Of Report Types

1. Go to setup page >> type Report Types in Quick Find bar >> click on Report Types >> click on Continue >> Click on New Custom Report Type.
2. In Define the Custom Report Type:

Primary Object : Select Venues

Report Type Label : Venue with DropOff with Volunteer

Report Type Name : Venue_with_DropOff_with_Volunteer

Description : Venue with DropOff with Volunteer

Store in Category : Select Other Reports

Deployment Status : Deployed

3. Click on Next

4. Near Click to relate another Object Select Drop-Off Points.

5. And also select "A" records may or may not have related "B" records.

6. Now again Near Click to relate another Object Select Volunteers.

7. Now click on Save.

Action	Label +	Description	Category	Deployed	Created By	Alias	Created Date
Edit Del	Drop-Off Points with Volunteers with Execution Details	Drop-Off Points with Volunteers with Execution Details	Other Reports	✓	NMurt		23/12/2024
Edit Del	Orchestration Run Logs Spring '24	Find out which orchestration run logs were created and what happened in their associated orchestration runs.	Other Reports	✓	autproc		11/12/2024
Edit Del	Orchestration Runs Spring '24	Find out which orchestration runs were created.	Other Reports	✓	autproc		11/12/2024
Edit Del	Orchestration Stage Runs Spring '24	Find out which orchestration stage runs were created and the current status of each run.	Other Reports	✓	autproc		11/12/2024
Edit Del	Orchestration Step Runs Spring '24	Find out which orchestration step runs were created and the current status of each run.	Other Reports	✓	autproc		11/12/2024
Edit Del	Orchestration Work Items Spring '24	Find out which orchestration work items were created, who's the associated assignee, and what's the current status of each work item.	Other Reports	✓	autproc		11/12/2024
Edit Del	Program Definition Spring '24	Review your analytics with a program-like structure. See each program task, target day, results, and more directly in a report and dashboard.	Other Reports	✓	autproc		11/12/2024
Edit Del	Program Definition Summer '24	Review your analytics with a program-like structure. See each program task, target day, results, and more directly in a report and dashboard.	Other Reports	✓	autproc		11/12/2024
Edit Del	Program Item Progress Spring '24	Report on tasks like exercises, milestones, and outcomes progress. Overall program progress isn't captured in this report.	Other Reports	✓	autproc		11/12/2024
Edit Del	Program Item Progress Summer '24	Report on tasks like exercises, milestones, and outcomes progress. Overall program progress isn't captured in this report.	Other Reports	✓	autproc		11/12/2024

10. Reports

10.1 Creation Of Report On venue With Drop-Off Point With Volunteer:

1. Go to the app(FoodConnect) >> click on the reports tab
2. Click on New Folder.

Folder Label : Custom Reports

Folder Unique Name : CustomReports

3. Open Custom Reports and click on New Report
4. Select Report Type : Venue with DropOff with Volunteer
5. Then click on Start Report.
6. In GROUP ROWS : Add Volunteer Name
7. In Columns : Add Venue Name, Drop-Off point Name, Distance

Volunteer Name	Venue Name	Drop-Off Point Name	Distance
charan (1)	VDCA cricket stadium	rtc complex,visakhapatnam	96.8600
Subtotal			96.8600
ganesh (1)	gayatri vidya parishad college of engineering	maddilapalem	44.8300
Subtotal			44.8300
Total (2)			131.6900

8. Now click on Save & Run.
9. Give Label as :
10. Report Name : venue and Drop Off point
11. Report Unique Name : Auto Populated
12. Click on Select Folder and select Custom Report, then click on Save.

10.2 Creation Of Report On Volunteer With Execution Details And Tasks:

1. Go to the app(FoodConnect) >> click on the reports tab
2. Click on Custom Reports Folder and click on New Report
3. Select Report Type : Volunteers with Execution Details and Tasks.
4. Then click on Start Report.

5. In GROUP ROWS : Volunteer ID
6. In Columns : Add Volunteer : Volunteer Name, Task : Task Name, Execution Detail : Execution Detail Name, Volunteer: Owner Name, Task: Date, Task : Rating.

Volunteer: Volunteer ID	Volunteer: Volunteer Name	Task: Task Name	Execution Detail: Execution Detail Name	Task: Owner Name	Date	Rating
1 (1)	ganesh	collecting food	Ongoing	Nuthakki Satya Murthy	26/12/2024	-
2 (1)	charan	collecting clothes	completed	Nuthakki Satya Murthy	26/12/2024	-
Total (2)						

7. Now click on Save & Run.

8. Give Label as :

Report Name : Volunteer Task

Report Unique Name : Auto Populated

9. Click on Select Folder and select Custom Report, then click on Save.

11. Dash Boards

11.1 Adding Venue And Drop-Off Point To Report The Dashboard:

1. Go to the app(FoodConnect) >> click on the Dashboards tab.
2. Click on New Folder.

Folder Label : Custom Dashboards

Folder Unique Name : Auto Populated

3. Open Custom Dashboards and click on New Dashboards
4. Name : Organization Details
5. Click on Widget and select Chart or Table
6. In Select Report : Select venue and Drop Off point Report.
7. Then click on select
8. In Add Component:

Display As : Select Lightning Table

Component Theme : Select Dark (Optional)

The screenshot shows the FoodConnect application interface. At the top, there is a navigation bar with a logo, the text "FoodConnect", and links for "Home", "Venues", "Tasks", and "Drop-Off P". Below the navigation bar, the title "Organization Details" is displayed. A modal window titled "venue and Drop Off point" is open, containing a table with two rows of data. The table has columns for "Venue Name", "Drop-Off Point Name", and "Dista...". The data is as follows:

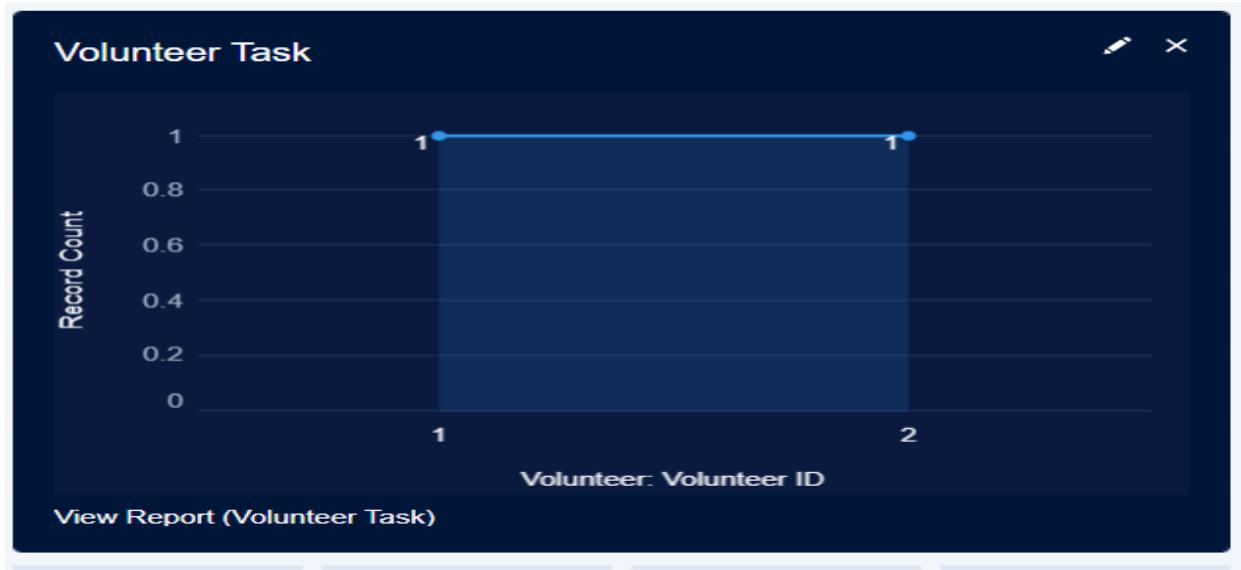
Venue Name ↑	Drop-Off Point Name	Dista...
gayatri vidya parishad college of engineering	maddilaplem	44.8300
VDCA cricket stadium	rtc complex,visakhapatnam	86.8600

At the bottom of the modal, there is a link "View Report (venue and Drop Off point)".

9. Now click on save.

11.2 Adding Volunteer Task Report To The Dashboard:

1. Click on Widget and select Chart or Table
2. In Select Report : Select Volunteer Task Report.
3. Then click on select
4. In Add Component:
Display As : Select Line Chart
Component Theme : Select Dark (Optional)



5. Now click on save.

11.3 Adding A Picture To The DashBoard:

1. Click on Widget and select Image. Then click on Browse Files.
2. Then Select the Picture you want to upload in this Dashboard.
3. Then click on Save As :
Name : Task Execution Details
Click on Select Folder and select Custom Dashboards
4. Click on Select Folder and then Save.

12. Creation Of Sharing Rules

1. Go to setup >> type Sharing Settings in quick find box >> Click on the Sharing Settings.
2. Scroll down and find Drop-Off point Sharing Rules.
3. Click on new near Drop-Off point Sharing Rules and Name it as:
Label : Rule 1
Rule Name : Rule_1
4. Select your rule type : Select Based on criteria.
5. Select which records to be shared:
Field : Operator : Value = Distance : less than : 15
6. Select the users to share with : Near Share With
Public Groups : Iksha
7. Click on Save.
8. Click on new near Drop-Off point Sharing Rules and Name it as:
Label : Rule 2
Rule Name : Rule_2

9. Select your rule type : Select Based on criteria.

10. Select which records to be shared:

Field : Operator : Value = Distance : greater than : 15

Field : Operator : Value = Distance : less or equal : 30

11. Select the users to share with : Near Share With

Public Groups : NSS

12. Click on Save.

13. Click on new near Drop-Off point Sharing Rules and Name it as:

Label : Rule 3

Rule Name : Rule_3

14. Select your rule type : Select Based on criteria.

15. Select which records to be shared:

Field : Operator : Value = Distance : greater than : 30

Field : Operator : Value = Distance : less or equal : 50

16. Select the users to share with : Near Share With

Public Groups : Street Cause

17. Click on Save.

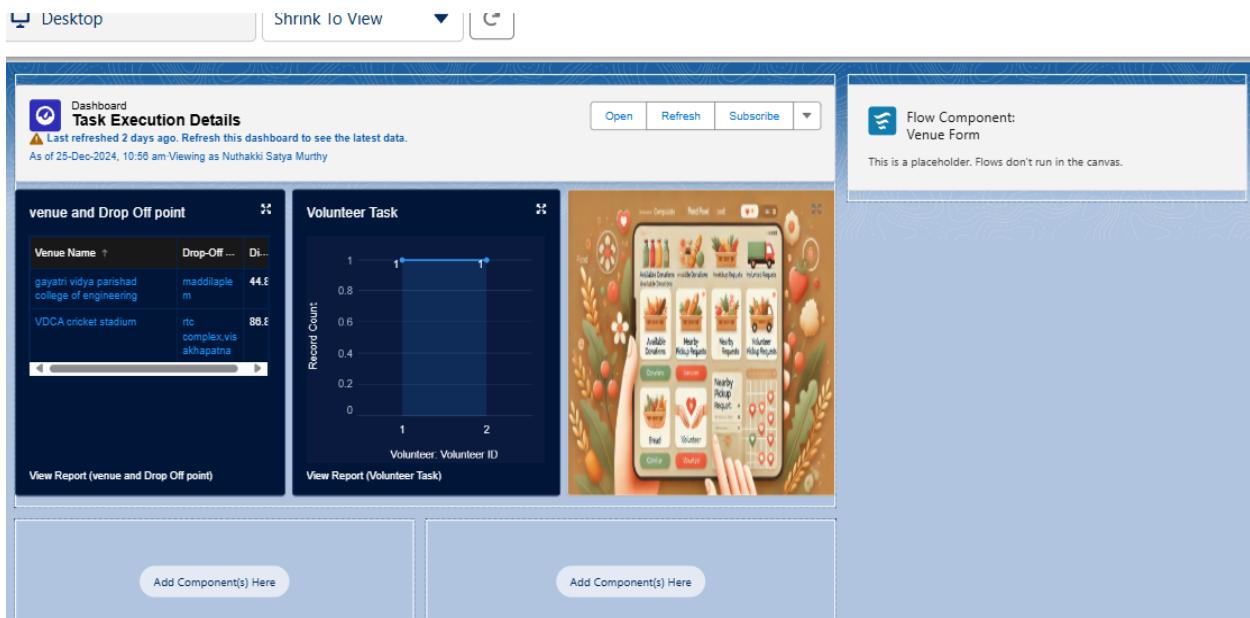
The screenshot shows the Salesforce Setup interface with the Sharing Settings page open. The left sidebar has a search bar and navigation links for Home, Object Manager, and a sharing search term. The main content area is titled "Sharing Settings". It contains several sections for different sharing rule types:

- Work Step Template Sharing Rules:** No sharing rules specified.
- Work Type Sharing Rules:** No sharing rules specified.
- Work Type Group Sharing Rules:** No sharing rules specified.
- Drop-Off Point Sharing Rules:** This section is expanded, showing two rules:

Action	Criteria	Shared With	Access Level
Edit Del	(Drop-Off Point: Distance GREATER THAN 15) AND (Drop-Off Point: Distance LESS OR EQUAL 30)	Group_Satya	Read Only
Edit Del	Drop-Off Point: Distance LESS THAN 15	Group_Satya	Read Only
Edit Del	(Drop-Off Point: Distance GREATER THAN 30) AND (Drop-Off Point: Distance LESS OR EQUAL 50)	Group_Venu	Read Only
- Task Sharing Rules:** No sharing rules specified.
- Venue Sharing Rules:** No sharing rules specified.

13. Creation Of Home Page

1. Go to setup >> type Lightning App Builder in quick find box >> Click on the Lightning App Builder and Select the New.
2. Select Home Page and give Label as HOME Page.
3. Select Standard Home Page.
4. Near Components search for Flow and Drag and Drop in Right Side Section..
5. On the right hand side:
Flow : Venue Flow
6. Near Components search for Dashboard, then Drag and Drop it in first Section.



7. Click on Save and Activation, then click on App Default, then Add Assignments.
8. Add FoodConnect App and then Save.
9. FoodConnect Home Page would Look Like this.

The screenshot shows the FoodConnect application interface. At the top, there's a navigation bar with links for Home, Venues, Tasks, Drop-Off Points, Execution Details, Volunteers, Reports, and Dashboards. Below the navigation is a search bar and a toolbar with Open, Refresh, and Subscribe buttons.

The main area displays two dashboards:

- venue and Drop Off point**: A table showing venue names, drop-off points, and distances. It lists "gayatri vidya parishad college of engineering" at maddilapalem (44.6 km) and "VOCA cricket stadium" at rtc complex, visa khapatnam (86.6 km).
- Volunteer Task**: A chart showing the record count for volunteers by ID. The x-axis is "Volunteer ID" (1, 2) and the y-axis is "Record Count" (0, 0.2, 0.4, 0.6, 0.8, 1). Both IDs have a count of 1.

To the right, there's a "Venue Form" section with fields for Venue Name, Email, Phone, Venue Location, Latitude, and Longitude, along with a "Next" button.

5. Testing and Validation

5.1 Unit Testing:

Testing the Drop-Off Trigger

The screenshot shows the Salesforce Developer Console in Microsoft Edge. The URL is https://gayatrividyaparishadcol175-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage. The tab title is "DropOffTrigger.apxt".

```

1 trigger DropOffTrigger on Drop_Off_point__c (before insert) {
2
3     for(Drop_Off_point__c Drop : Trigger.new){
4
5         Drop.Distance__c = Drop.distance_calculation__c;
6
7     }
8
9 }
```

The console includes tabs for Logs, Tests, Checkpoints, Query Editor, View State, Progress, and Problems. The Problems tab is currently selected, showing a table with columns: User, Application, Operation, Time, Status, Read, and Size. There are no entries in the table.

5.2 User Interface Testing:

Here we can see the Dashboard with Venue And Drop Point is tested and Volunteer task Dashboard where we can observe a graph plotted between Record Count and Volunteer:Volunteer ID, Which shows That UI is perfectly developed.

The screenshot displays the FoodConnect application's Task Execution Details dashboard. On the left, there is a table titled 'venue and Drop Off point' showing two rows of data: 'gayatri vidya parishad college of engineering' with a drop-off point of 'maddilapalem' and 'VDCA cricket stadium' with a drop-off point of 'RTC complex visa khapalnam'. To the right of this table is a bar chart titled 'Volunteer Task' showing 'Record Count' for 'Volunteer: Volunteer ID' 1 and 2. Both have a count of 1. Below the chart is a decorative graphic of a smartphone displaying a food delivery app interface. On the right side of the dashboard, there is a 'Venue Form' section with input fields for 'Venue Name', 'Email', 'Phone', 'Venue Location', 'Latitude', and 'Longitude', each with a corresponding text input field. A 'Next' button is located at the bottom right of this form.

5.3 Validation:

We can Observe That cant Create Duplicate Fields,Objects and Every User,Public Groups details are Valid.

- **Venue Form:** Ensures all mandatory fields (Venue Name, Email, Phone, Venue Location) are filled, with real-time error messages for missing or incorrect inputs. Email and numeric fields are validated for proper formats.
- **Venue and Drop-Off Point Table:** Data is dynamically fetched and validated to ensure accuracy, with functional sorting and scrolling for large datasets.
- **Volunteer Task Section:** Graph data is validated to accurately reflect

real-time information, and links are tested for correct redirection.

- **Dashboard Controls:** Buttons like "Open," "Refresh," and "Subscribe" are tested to confirm proper functionality and data updates.

The image displays two screenshots of the FoodConnect application interface, illustrating the testing of dashboard controls and real-time information.

Screenshot 1: Venue Details - VDCA cricket stadium

This screenshot shows the 'Details' tab for a venue named 'VDCA cricket stadium'. The details include:

- Venue Name: VDCA cricket stadium
- Contact Email: madhurawda@gmail.com
- Contact Phone: 7894561231
- Location: 17, 83
- Venue Location: madhurawda
- Created By: Nuthakki Satya Murthy (25/12/2024, 12:09 am)
- Last Modified By: Nuthakki Satya Murthy (25/12/2024, 12:09 am)

The 'Activity' section shows no upcoming or overdue activities.

Screenshot 2: Task Details - collecting food

This screenshot shows the 'Details' tab for a task named 'collecting food'. The details include:

- Task Name: collecting food
- Sponsored By: gayatri vidya parishad college of engineering
- Drop-Off Point: maddilapalem
- Distance: 18.0000
- Task ID: TASK-1
- Date: 26/12/2024
- Food Category: Non-Veg
- Number of People Served: 20
- Name of the Person:
- Phone:

The 'Activity' section shows no upcoming or overdue activities.

The screenshots illustrate the FoodConnect application's user interface across three main modules:

- Drop-Off Point Module:** Shows the details for a drop-off point named "rtc complex.visakhapatnam". The details include the owner (Nuthakki Satya Murthy), location (17.7241, 83.3071), distance calculation (86.86), and state (Andhra Pradesh). The activity section shows no past activity.
- Execution Detail Module:** Shows the details for an execution detail named "Ongoing". It includes the task ("collecting food") and volunteer ("ganesh"). The activity section shows no upcoming or overdue activities.
- Reports Module:** Shows a list of recent reports. The table includes columns for Report Name, Description, Folder, Created By, Created On, and Subscribed. Recent reports listed include "Sample Flow Report: Screen Flows" (Public Reports, Automated Process, 11/12/2024, 10:48 pm) and "Volunteer Task" (Custom Reports, Nuthakki Satya Murthy, 24/12/2024, 10:46 pm).

Below we Can See That Its Showing Unable to Create Duplicates Objects, Fields etc.

The screenshot shows the 'Custom Object Definition Edit' screen in Salesforce. At the top, there are buttons for 'Save', 'Save & New', and 'Cancel'. A note at the top says: 'Permissions for this object are disabled for all profiles by default. You can enable object permissions in permission sets or by editing custom profiles. [Tell me more](#) [Don't show this message](#)'. Below this is a section titled 'Custom Object Information' with a note: 'The singular and plural labels are used in tabs, page layouts, and reports.' It contains fields for 'Label' (Volunteer), 'Plural Label' (Volunteers), and 'Example' (Account). There is also a checkbox for 'Starts with vowel sound'. Under 'Object Name', it shows 'Object Name' (Volunteer) with an error message: 'Error: That object name is already in use.' and 'Example: Account'. At the bottom, there is a 'Description' field.

6. Key Scenarios Addressed by Salesforce in Implementation Of The Project

- **Customer Relationship Management (CRM):** Salesforce handles managing and analyzing customer interactions and data, improving customer service and engagement.
- **Sales Process Automation:** It automates various sales processes, like tracking leads, opportunities, and performance, helping sales teams close deals faster.
- **Marketing Campaigns and Engagement:** Salesforce enables personalized marketing campaigns and provides tools for tracking and analyzing their effectiveness.
- **Service Management:** It supports case management, service cloud, and provides tools for customer support teams to resolve issues efficiently.
- **Analytics and Reporting:** Salesforce helps generate real-time reports and dashboards, providing insights into business operations and customer behavior.
- **Collaboration and Integration:** The platform integrates with other

systems and fosters team collaboration, ensuring streamlined workflows and improved productivity.

7. Conclusion

The **Food Connect** app has successfully created a digital platform to bridge the gap between surplus food and those in need. By implementing real-time tracking, efficient coordination of volunteers, and a user-friendly interface, the app has streamlined the process of food donation and distribution. Key milestones include integrating donation requests, volunteer management features, and creating impact reporting tools. With this project, we have taken a step toward reducing food waste and addressing hunger in underserved communities, while fostering a sense of community responsibility and involvement.